



PATENT ABSTRACTS OF JAPAN

(11)Publication number : 61-046200

(43)Date of publication of application : 06.03.1986

(51)Int.Cl.

H02P 9/30

H01H 9/54

(21)Application number : 59-167216

(71)Applicant : NIPPON DENSO CO LTD

(22)Date of filing : 08.08.1984

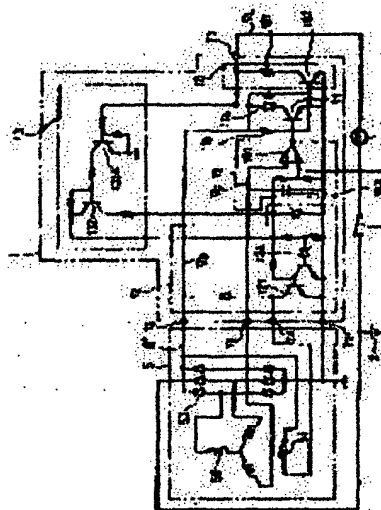
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MAYUMI NOBUO
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SHIBATA KOJI
MORI KAZUMASA

(54) SWITCH CLOSURE DETECTOR CIRCUIT

(57)Abstract:

PURPOSE: To accurately detect the closure of a switch by detecting the closure of a switch by a voltage applied to a transistor.

CONSTITUTION: When a key switch 3 is closed, the voltage of an external terminal T3 becomes a voltage decided by the divided voltage of a charge lamp 4 and a leakage compensating resistor 151. Transistors 131a, 132 are turned ON by the voltage, and a current is supplied to a generating voltage controller 12 and a generation detector 19. When an engine starts so that the voltage at a terminal T5 becomes higher than a reference voltage V_{ref} , the output of a comparator 191 becomes L, transistors 11, 182 become OFF, a charge lamp 4 is turned OFF, and the current flowed to a resistor 181 for compensating the leakage is interrupted.



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[Date of request for examination]

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[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 52-068911

(43)Date of publication of application : 08.06.1977

(51)Int.Cl.

H02P 9/30

H02J 7/24

(21)Application number : 50-144017

(71)Applicant : HITACHI LTD

(22)Date of filing : 05.12.1975

(72)Inventor : NAOI KEIGO
KOIKE HIROSHI

(54) CONTROL APPARATUS FOR AC GENERATOR FOR VEHICLE

(57)Abstract:

PURPOSE: To simplify the circuit construction by constructing that one end of the field coil is connected with the output terminal of the three phase fullwave rectifier directly connected with the output terminal of the generator.

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[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-047091

(43)Date of publication of application : 14.02.1997

(51)Int.Cl.

H02P 9/14

H01L 29/78

H02J 7/24

(21)Application number : 08-096072

(71)Applicant : DENSO CORP.

(22)Date of filing : 25.03.1996

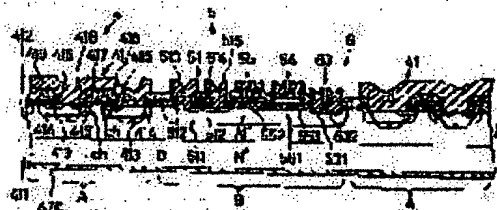
(72)Inventor : KATO TAKETOSHI
MAEHARA FUYUKI
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MORI KAZUMASA

(54) VOLTAGE REGULATOR FOR VEHICLE CHARGING GENERATOR

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a voltage regulator for vehicle charging generator employing an MOSFET in a switching circuit for turning the rotor coil on/off in which high response to instantaneous output overvoltage or the like is attained while ensuring sufficient reliability for being employed in a vehicle susceptible to EMI.

SOLUTION: A switching circuit 4, a switching drive circuit 6 for imparting a driving signal thereto, and a protective circuit 5 for controlling the switching circuit 4 preferentially at the time of abnormality are formed, in multilayer structure, on a single semiconductor chip 9 while sharing an N-type epitaxial layer 412 such that the switching circuit 4 surrounds the switching drive circuit 6 and the protective circuit 5. This structure shortens the interconnection of each circuit significantly to provide high response and high reliability against noise.



LEGAL STATUS

[Date of request for examination]

24.04.1996

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

2976880

[Date of registration]

10.09.1999

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

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